Attorney Docket No.: VRT0059US

APPLICATION-ASSISTED RECOVERY FROM DATA CORRUPTION IN PARITY RAID STORAGE USING SUCCESSIVE RE-READS

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ABSTRACT OF THE DISCLOSURE

[0036] An apparatus or method that tracks the identity of stripe units or group of stripe units from which data has been previously read by an application program running on a computer system. In one embodiment, the present invention stores the identity of previously read stripe units or groups of stripe units in a table. If the application program requests data of one of stripe unit or groups of stripe units whose identity is stored in the table, the requested data is regenerated from parity data and data of the stripe or stripes other than the requested data. This generated data is returned to the application program rather then the existing data stored in the stripe unit or groups of stripe units.

Client Reference No.: VRTS 0277